

JAGUAR NETWORK: A CONTRAIL EARLY ADOPTER PROFILE

Summary

Company: Jaguar Network

Industry: Telecommunications, ISP, cloud and hosting service provider

Challenges:

- Provisioning the network in the current virtualized data center takes too long.
- Relying on VLANs to provide needed customer segmentation limits both scale and agility.
- Commercial virtualization platform lacks the advanced networking capabilities required to keep pace with dynamically changing customer requirements.

What Jaguar Network Likes About Contrail

Based on its experience with Contrail to date, here are some of the benefits that Jaguar sees in the Contrail technology:

- Contrail's vRouter component provides a Layer 3-based approach that allows Jaguar to move away from VLANs, unlike competitors' Layer 2 vSwitches.
- OpenStack integration allows Contrail to interoperate with the existing orchestration tool.
- The ability to do Network Functions Virtualization (NFV) service chaining with Contrail is another benefit, because in the future, Jaguar would like to virtualize certain Layer 4-7 network functions such as firewalls, load balancers, etc.

These early adopter profiles are taking a look at some of the innovative customers such as Jaguar Network that are evaluating Juniper Networks® Contrail product via the beta program. Since Contrail is still in the early stages of product adoption, these customers are not deploying it in their production networks—yet!—but these case studies are intended to give a sense of how one of our most exciting and innovative software-defined networking (SDN) products will be used by customers as they are challenged to solve real-world problems.

Jaguar Network is a leading business Internet service provider (ISP) and managed cloud provider that was founded in 2001. The company, which has been growing by leaps and bounds, operates in 30 data centers with 1,000 equipment racks and 10,000 servers delivering advanced telecommunications and hosting services to more than 800 customers all across Europe. The company delivers services ranging from IP VPNs, IP telephony, and hosting services.

Challenge

Jaguar Network faces the same problem many telecom and cloud providers do—provisioning the network in their virtualized data center takes too long. Because they offer cloud computing and hosting services to multiple customers, they require customer traffic to be securely segmented. Today they rely on VLANs to provide this customer segmentation, but the current approach limits both scale and agility. The company also uses a well-known commercial virtualization platform, but this platform lacks the advanced networking capabilities required to keep pace with dynamically changing customer requirements. Finally, Jaguar is leveraging a custom-built OpenStack-based orchestration tool, and it is looking for alternatives that will integrate with this orchestration platform.

"We have been working with Juniper Networks Contrail solution for several months now, and have been impressed with its ability to automate the provisioning of virtual networks, and to orchestrate network connectivity across public, private, and hybrid clouds. Contrail was also able to integrate very seamlessly with our existing OpenStack-based orchestration system."

- Mathieu Paonessa, Senior Network Engineer & Peering Coordinator
Jaguar Network



Expected Solution

Jaguar Network is evaluating Juniper Networks Contrail as a part of an alternative architecture leveraging a KVM-based virtualization platform. Within this new solution, Juniper Networks Contrail would provide the advanced network virtualization capabilities that are lacking from Jaguar Network's existing virtualization platform. Deploying Contrail will also allow Jaguar to provide the network automation and inter-cloud orchestration needed to introduce new services like hybrid cloud offerings to its customers. Jaguar Network has also tested FireFly as a virtual firewall solution, which provides advantages when deployed in conjunction with Contrail.

“As a leading European telecommunications and hosting provider, the agility of our network and data center is critical to our ability to deliver innovative services.”

- Mathieu Paonessa, Senior Network Engineer & Peering Coordinator
Jaguar Network

For More Information

To find out more about Juniper Networks products and solutions, please visit www.juniper.net.

About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at www.juniper.net.

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